

What is claimed is:

1. An optical scanning apparatus for a photosensitive medium, comprising:
a light source which emits light;
a rotary polygonal mirror which reflects the light from the light source while being rotated;
f- θ lenses which cause the light reflected by the rotary polygonal mirror to form a light spot;
a reflecting mirror, disposed on an optical path between the f- θ lenses and the photosensitive medium, which directs the light spot toward the photosensitive medium; and
a plate having a slit, the plate interposed between the photosensitive medium and the reflecting mirror so that a scan line is formed uniformly by a portion of the light spot passing through the slit.
2. The optical scanning apparatus as claimed in claim 1, wherein the slit has a length corresponding to a length of the scan line.
3. The optical scanning apparatus as claimed in claim 2, wherein a dimension of the spot measured transverse to the slit has a length within a range including 225 μm and 300 μm .
4. The optical scanning apparatus as claimed in claim 2, wherein the plate is disposed to be closer to the photosensitive medium than to the reflecting mirror.
5. The optical scanning apparatus as claimed in claim 1, wherein a dimension of the spot measured transverse to the slit has a length within a range including 225 μm and 300 μm .
6. The optical scanning apparatus as claimed in claim 1, wherein the plate is disposed to be closer to the photosensitive medium than to the reflecting mirror.

7. An optical scanning apparatus for a photosensitive medium, comprising:
a light source which emits light;
a rotary polygonal mirror which reflects the light from the light source while being rotated;
f- θ lenses which cause the light reflected by the rotary polygonal mirror to form a light spot;
a reflecting mirror, disposed on an optical path between the f- θ lenses and the photosensitive medium, which directs the light spot toward the photosensitive medium;
a plate having a slit interposed between the photosensitive medium and the reflecting mirror so that a scan line is formed uniformly by a portion of the light spot passing through the slit; and
a position adjusting unit which adjusts a position of the slit.

8. The optical scanning apparatus as claimed in claim 7, wherein the slit has a length corresponding to a length of the scan line.

9. The optical scanning apparatus as claimed in claim 8, wherein a dimension of the spot measured transverse to the slit has a length within a range including 225 μm and 300 μm .

10. The optical scanning apparatus as claimed in claim 8, wherein:
the plate comprises a transparent plate on which the slit is printed; and
the position adjusting unit comprises:
a plurality of holders which support the transparent plate, and
a position adjuster which is engaged with at least one of the plurality of holders and which adjusts a position of the slit with respect to the photosensitive medium.

11. The optical scanning apparatus as claimed in claim 10, wherein the position adjuster comprises:
an elastically biased ball plunger which presses against one side of the plate, and
a set screw which presses against an opposite side of the plate.

12. The optical scanning apparatus as claimed in claim 10, wherein the position adjuster comprises first and second set screws which press against opposite sides of the plate.

13. The optical scanning apparatus as claimed in claim 7, wherein a dimension of the spot measured transverse to the slit has a length within a range including 225 μm and 300 μm .

14. The optical scanning apparatus as claimed in claim 7, wherein:
the plate comprises a transparent plate on which the slit is printed; and
the position adjusting unit comprises:
a plurality of holders which support the the plate, and
a position adjuster which is engaged with at least one of the plurality of holders and which adjusts a position of the slit with respect to the photosensitive medium.

15. The optical scanning apparatus as claimed in claim 10, wherein the transparent plate is a glass plate.

16. The optical scanning apparatus as claimed in claim 1, wherein the plate comprises a transparent plate on which the slit is printed.

17. An optical scanning apparatus comprising:
an optical system which directs a light spot on a predetermined path toward a photosensitive medium; and
a plate having a slit interposed between the optical system and the photosensitive medium, the slit passing a portion of the light spot to uniformly form a scan line on the photosensitive medium.

18. The optical scanning apparatus as claimed in claim 17, wherein the plate comprises a transparent plate on which the slit is printed.

19. The optical scanning apparatus as claimed in claim 17, further comprising a position adjusting unit which adjusts a position of the slit with respect to the photosensitive medium.

20. The optical scanning apparatus as claimed in claim 17, wherein a ratio of a length of the light spot on the predetermined path to a length of the portion of the light spot passed to the photosensitive medium is greater than 1:1, where the lengths are measured transverse to a length of the slit.

21. The optical scanning apparatus as claimed in claim 20, wherein the ratio is about 4:1.

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